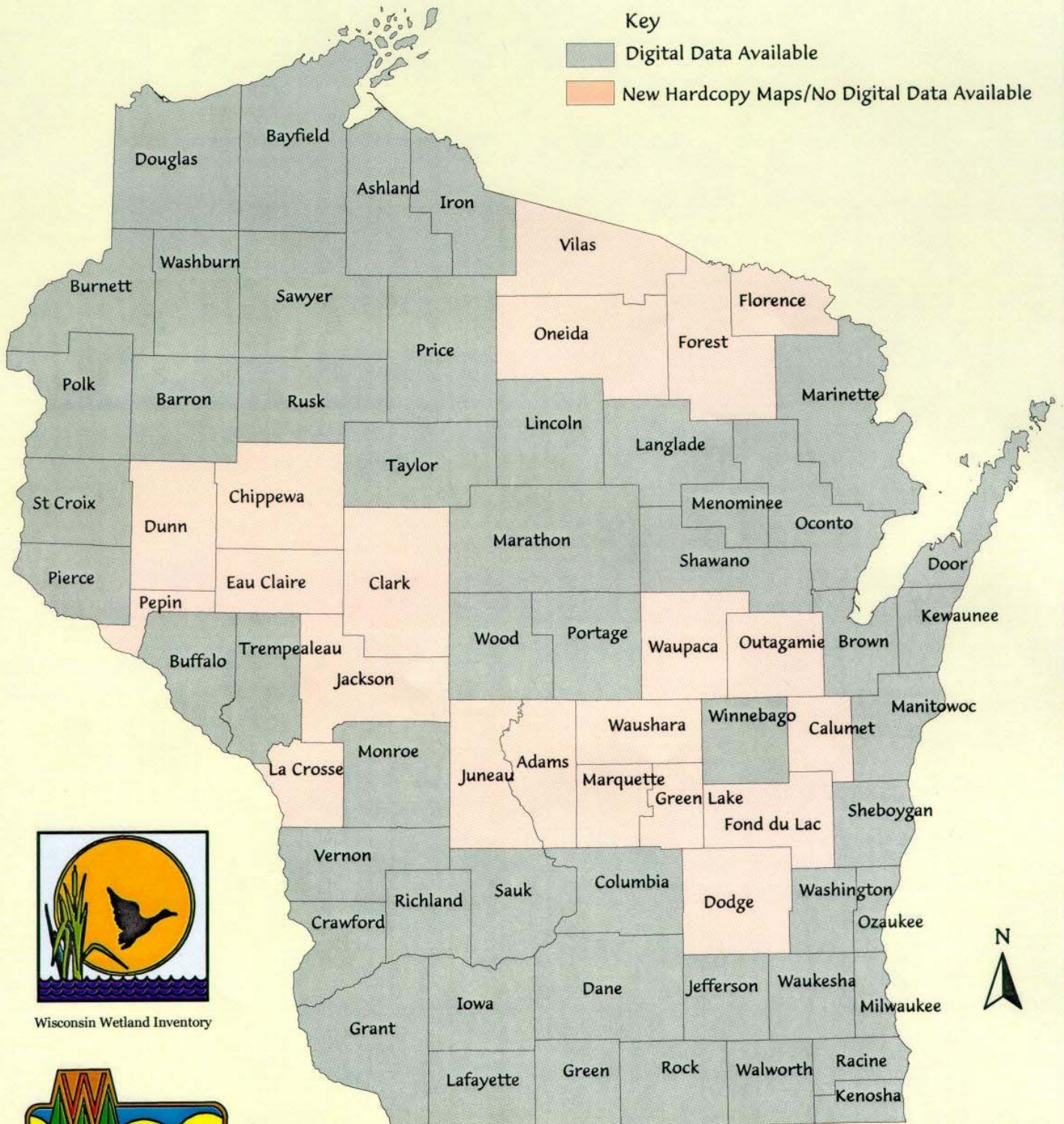




# The Digital Wisconsin Wetland Inventory



# WISCONSIN DIGITAL WETLAND INVENTORY (DWI) - DIGITAL DATA ORDER FORM

**NOTICE: There is no rush service. There are no volume discounts.** Orders are filled on a first come, first served basis. Response time varies based on size of orders. The fastest method for obtaining available data after payment is received is via email or FTP using the following defaults. Please order data early.

.....  
**Wisconsin Digital Wetland Inventory (DWI) Database Description and defaults:**

Native Format:       ARC/INFO Coverages (data sent in Arc Export format .e00)  
Coordinate Units:   Meters  
Base Datum:        North American Datum of 83-91(HPGN)  
Source Scale:       1:24,000  
Tile Structure:      DWI is tiled by Public Land Survey System (PLSS) Township (ie: T07N R10E).  
Projection:         Statewide Transverse Mercator, one zone, centered on 90 degrees West Longitude  
                       (known as Wisconsin TM, or WTM, not UTM).  
Cost:                \$15.00 per data tile (PLSS township, not civil township)  
.....

**Instructions. Please read carefully:**

1. **Verify digital county wetland data is available from status map or by checking list on reverse side.** *Orders for counties with no available digital data will be returned with payment. If digital data is not available you must use the Wetland Map Paper Order Form.*
2. Fill in the County name and PLSS Township and Range Number(s) of the data tiles being ordered in the spaces below. When ordering data for an entire county, fill in the county name and note "all". The number of tiles in each Wisconsin County is listed on the reverse side.
3. Specify the map Projection, Base datum (NAD 83-91 (HPGN) default), Format (Shapefile or .e00), and Media desired. *Failure to correctly fill in the Projection, Datum, Format and Media choices will result in the order being filled using the DWI defaults listed above.*
4. Calculate total cost. Mail order and payment to the WDNR address on reverse side.

.....  
**All information must be complete.** List additional data on a separate sheet of paper. Please check on reverse side for data availability.

County	Township# Range#	Township# Range#	Township# Range#	Township# Range#
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**1. Projection choices (check one only):**

- ☐ Wisconsin Transverse Mercator (WTM)  
☐ Universal Transverse Mercator (UTM)  
☐ Wisconsin State Plane Coordinates

**2. Media choices (check one only):**

- ☐ 3.5" floppy diskette(s)  
☐ CDROM (*Only for orders of 5 full counties or more – call ahead to check order size*)  
☐ Send data via ftp site or email address. (*No postage necessary for email or FTP orders*)  
FTP/Email address: \_\_\_\_\_

**3. Datum (check one only):**

- ☐ NAD 27  
☐ NAD 83-91 (HPGN)

**4. File Format (check one only):**

- ☐ Shapefile      ☐ Arc Export .e00

Date: \_\_\_\_\_

Requested by: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Street

Phone \_\_\_\_\_

City

State

Zip

E-mail address: \_\_\_\_\_

Cost (No. of data tiles \_\_\_\_ x \$15.00) \_\_\_\_\_

Postage (For floppy/CD orders only - see reverse for rates) \_\_\_\_\_

Optional Postage (Add \$1.50 for First Class) \_\_\_\_\_

Sales tax (5.5% for all Wisconsin residents) \_\_\_\_\_

**TOTAL AMOUNT ENCLOSED** \_\_\_\_\_

♦♦♦ PAYMENT MUST ACCOMPANY YOUR ORDER ♦♦♦

**COUNTY TILE INFORMATION & DATA AVAILABILITY**

County	# of Tiles	County	# of Tiles	County	# of Tiles
Adams*	24	Iowa	27	Polk	29
Ashland	44	Iron	26	Portage	22
Barron	25	Jackson*	28	Price	35
Bayfield	50	Jefferson	16	Racine	11
Brown	19	Juneau*	28	Richland	20
Buffalo	25	Kenosha	10	Rock	20
Burnett	30	Kewaunee	13	Rusk	26
Calumet*	12	La Crosse*	17	Sauk	28
Chippewa*	28	Lafayette	20	St. Croix	23
Clark*	33	Langlade	25	Sawyer	38
Columbia	24	Lincoln	25	Shawano	25
Crawford	27	Manitowoc	19	Sheboygan	16
Dane	35	Marathon	44	Taylor	27
Dodge*	25	Marinette	52	Trempealeau	24
Door	25	Marquette*	15	Vernon	26
Douglas	41	Menominee	10	Vilas*	33
Dunn*	24	Milwaukee	9	Walworth	16
Eau Claire*	18	Monroe	26	Washburn	24
Florence*	18	Oconto	32	Washington	12
Fond du Lac*	22	Oneida*	35	Waukesha	16
Forest*	30	Outagamie*	20	Waupaca*	21
Grant	37	Ozaukee	9	Waushara*	18
Green	16	Pepin*	11	Winnebago	16
Green Lake*	12	Pierce	21	Wood	23

*\*No digital data available at this time. Please order hard copy maps for these counties using Wetland Map Order form.*

**Postage and Handling Charges for data delivered on 3.5" diskettes or CD**

<u>Number of Data Tiles</u>	<u>Postage and Handling</u>
1 - 10	\$1.00
11 - 30	1.50
31 - 50	1.75
51 - 70	2.00
71 - 100	2.50
101 - 200	5.00

**Return this form with payment to:**

**(Make check payable to WI DNR)**

Wisconsin Department of Natural Resources  
Bureau of Fisheries Management & Habitat Protection, FH/4  
P.O. Box 7921  
Madison, WI 53707-7921  
(608) 266-0756

For correspondence by e-mail: [Calvin.Lawrence@dnr.state.wi.us](mailto:Calvin.Lawrence@dnr.state.wi.us)

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**Scheduling** Data orders do not command priority over other projects or work demands of the DNR WWI program. Customers are advised that significant delays may sometimes occur due to staff shortages or schedule constraints. A good faith effort will be made to fill orders as promptly as possible within normal operations of the WWI program staff. Users are encouraged to order early.

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**Database Organization** Tile structure is by Public Land Survey System (PLSS) Township (ie: T07N R10E) at a scale of 1:24,000 (1" = 2,000').

**Updates** GIS data sets are distributed on a one-time basis. The DNR is under no obligation to inform customers of data updates, alterations, or accuracy errors discovered thereafter. The burden of ordering and paying for updated copies of data sets rests entirely upon the licensee and/or requestor. Revisions will be made by the DNR on a time and funding-available and discretionary basis.

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**Authorization** The signatory for the licensee represents and warrants that s/he is authorized to execute this document on behalf of the requesting organization/entity.

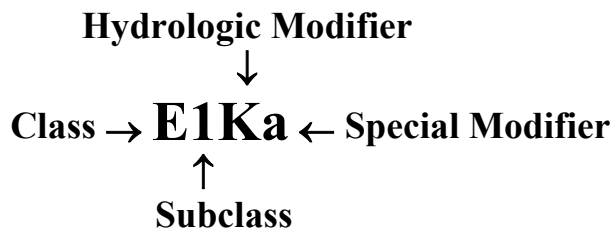
**Requestor Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Printed Name** \_\_\_\_\_ **Title** \_\_\_\_\_

**Requesting Organization/Entity** \_\_\_\_\_

**DNR Wisconsin Wetland Inventory Staff Person** \_\_\_\_\_ **Date** \_\_\_\_\_





Class and subclass	
A	Aquatic bed
1	Submergent
2	Floating
3	Rooted floating
4	Free floating
M	Moss
E	Emergent/wet meadow
1	Persistent
2	Narrow-leaved persistent
3	Broad-leaved persistent
4	Nonpersistent
5	Narrow-leaved nonpersistent
6	Broad-leaved nonpersistent
S	Scrub/shrub
1	Deciduous
2	Needle-leaved deciduous
3	Broad-leaved deciduous
4	Evergreen
5	Needle-leaved evergreen
6	Broad-leaved evergreen
7	Dead
8	Needle-leaved
9	Broad-leaved
T	Forested
1	Deciduous
2	Needle-leaved deciduous
3	Broad-leaved deciduous
5	Needle-leaved evergreen
7	Dead
8	Needle-leaved
F	Flats/unvegetated wet soil
Ø	Subclass unknown
1	Cobble/gravel
2	Sand
3	Mud
4	Organic
5	Vegetated pioneer
W	Open water
Ø	Subclass unknown
1	Cobble/gravel
2	Sand
3	Mud
4	Organic
5	Vegetated pioneer

Hydrologic modifier	
L	Standing water, Lake
R	Flowing water, River
H	Standing water, Palustrine
K	Wet soil, Palustrine

Special modifiers	
a	Abandoned cropland
c	Manmade cranberry bog
e	Exposed flats complex
f	Farmed in dry years
g	Grazed
j	Central sands complex
m	Floating vegetated mats
s	Ridge and swale complex
v	Vegetation recently removed
w	Floodplain complex
x	Excavated
r	Red clay complex

Map symbols	
—	Upland surrounded by wetland
—	Wetland -- upland boundary
---	Wetland -- deep water lake
—...—	Level ditch
—·—·—	Stream or drainage ditch
	Road
	Railroad
	Dike, levee, abandoned railroad
	Same classification on both sides of linear feature
↓	Wetland smaller than 2 acres
∈	Dammed pond smaller than 2 acres
9	Excavated pond smaller than 2 acres
	Man-made dam
	Spring within a wetland
	Beaver dam
—•—	Municipal boundaries
◆◆◆◆	County boundary
●●●	Township boundary

//// Area no longer wetland, field verified

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## DIGITAL WISCONSIN WETLAND INVENTORY LAYER DESCRIPTION

The Wisconsin Wetland Inventory (WWI) digital data layer consists of a series of polygon coverages and point coverages that are digitized from 1:24,000 scale WWI maps using ARC/INFO GIS software. The point coverage includes information for wetlands smaller than 2 or 5 acres, depending on the county. Map tiles for both sets of coverages correspond to Public Land Survey System (PLSS) Townships. The DNR Bureau of Fisheries Management & Habitat Protection is the custodian and sole distributor of this layer.

### WETLAND POLYGON COVERAGE ATTRIBUTE DESCRIPTION

- PLS** This attribute is a 5-digit code that identifies the Public Land Survey System (PLSS) Township for the coverage. A "4" in the first digit indicates a Range direction of East. A "2" in the first digit identifies a Range direction of West. The second and third digits identify the Township number. The fourth and fifth digits identify the Range number. For example:
- 41517** = Township 15 North, Range 17 East or T15N R17E  
**21517** = Township 15 North, Range 17 West or T15N R17W
- COUNTY** This attribute contains a 2 digit minor civil division coding system number. For example: Adams County = 01; Wood County = 72.
- ORIGCODE** The WWI classification system describes the dominant vegetative class, subclass, hydrologic characteristics and special features of the wetland as of the date the data was originally interpreted. Wetland classification codes typically include up to 4 alphanumeric characters (E2Kg), but when a second vegetative type covers 30% or more of the area, codes for both types of vegetation are described and separated by a "/" (S3/E2Kg).
- Origcode** will always contain the original wetland classification assigned to the polygon when it was first interpreted. When updated wetland classification information becomes available it will be recorded in **WETCODE**. **Wetcode** should always be used to determine the current classification of the polygon.
- The ORIGCODE attribute also contains 4 codes that describe non-wetland features. These codes are:
- \$** The \$ symbol is placed before a wetland classification code to denote the area is no longer wetland due to filling or draining activities.
- DWL** Refers to a lake greater than 6 feet deep that is totally surrounded by wetland.
- RIVER** Refers to a primary channel of flowing water that has wetland on both sides of the river.
- ROAD** Refers to a road that bisects a wetland. It is important to note that while all roads that bisect or abut wetlands are drafted on the WWI maps, only roads that bisect wetlands are digitized.

For a detailed description of wetland classification codes refer to DNR WRZ Publication "Wisconsin Wetland Inventory Classification Guide (DNR PUBL-WZ 023).

- DIGITIZED** The date when the WWI map was originally digitized.
- UPDATED** The latest date that the wetland polygon was revised on the original hardcopy map.
- WETCODE** The current WWI Classification Code for the represented area. (Refer to the description of the ORIGCODE item above).
- CLASS** Generalized description of the WWI Classification Code based on **WETCODE**.
- DIGUP** The date that a revised wetland polygon was last digitally updated. If a wetland polygon has not been revised since it was originally digitized this item will be left blank. If the date indicated in the UPDATED attribute is later than the date in the DIGUP attribute, the digital linework has not been updated.
- UPREASON** This attribute consists of 2 individual character codes that describe the reason for creating or updating a given polygon. If a polygon has not been updated since its original automation, this item is left blank.

First character code:

<b>CODE</b>	<b>DEFINITION</b>
A	Wetland addition
B	Classification change
C	Linework (delineation) change

Second character code:

<b>CODE</b>	<b>DEFINITION</b>
A	Dominant vegetation change
B	Reverted back to wetland
C	Map error
D	Filled or drained
E	Digitizing error
F	Wetland restoration
G	Wetland enhancement
H	Pond construction

- MINUNIT** Minimum mapping unit (2 or 5 acres) for wetland polygons in this coverage. The minimum mapping unit is consistent within a given county but will vary from county to county. Wetlands smaller than 2 or 5 acres are indicated by point symbols (see **WETLAND POINT COVERAGE ATTRIBUTE DESCRIPTION**.)
- BASEDATE** The date of the original 1:24,000 scale ratioed and rectified photographic base maps. These base maps are not used for interpreting wetland delineations, only for drafting and digitizing wetland boundaries once they are interpreted.
- PHOTODATE** The date of 1:20,000 scale black and white infrared stereoscopic aerial photography used to photo interpret wetland delineations and classifications. The date of the base map photography may be different than the date of the stereoscopic photography used to



interpret wetlands.

**MAPTYPE** This attribute describes the type of 1:24,000 scale photographic base map used to draft wetland delineations and point symbols:

CODE	DEFINITION
O	Orthophoto base map
T	PLSS Township centered ratioed/rectified base map
B	Combination of orthophoto and PLSS Township centered base maps

**WET-ID** This is an 11 digit identification number assigned to each polygon that contains the **COUNTY** attribute, **PLS** attribute and a unique 4 digit polygon identification number assigned to each polygon by ARC/INFO. It is used to relate the spatial information to existing or future tabular databases.

Example: **WET-ID** = 05424200047

NUMBER	DEFINITION
05	2 digit <b>COUNTY</b> attribute
42420	5 digit <b>PLS</b> attribute
0047	unique 4 digit polygon identification number

#### **WETLAND POINT COVERAGE ATTRIBUTE DESCRIPTION**

**PLS** This attribute is defined the same as in the polygon coverage.

**COUNTY** This attribute is defined the same as in the polygon coverage.

**SYMBOL** This attribute contains a code that describes the wetland point symbols drafted on the WWI base maps:

CODE	DEFINITION
<5	Wetland less than 5 acres in size
<2	Wetland less than 2 acres in size
EXPOND	Excavated pond smaller than 2 or 5 acres
DAMPOND	Dammed pond smaller than 2 or 5 acres

A \$ symbol will be placed before a wetland point symbol code if the area is no longer wetland due to filling or draining activities.

**DIGITIZED** This attribute is defined the same as in the polygon coverage.

**UPDATED** This attribute is defined the same as in the polygon coverage.

**DIGUP** This attribute is defined the same as in the polygon coverage.

**UPREASON** This attribute is defined the same as in the polygon coverage.

**WET-ID** This attribute is defined the same as in the polygon coverage